ELSEVIER

Nuclear Instruments and Methods in Physics Research B 114 (1996) 413–418

NIM B
Beam Interactions with Materials & Atoms

Author index

Adamczewski, J., J. Meijer, A. Stephan, H.H. Bukow and C. Rolfs, Optimization of material and shape for nuclear microprobe apertures . . . 114 (1996) 172
Adesanmi, C.A., see Balogun, F.A. . . . 114 (1996) 387
Agosteo, S., A. Fassò, A. Ferrari, P.R. Sala, M. Silari and P. Tabarelli de Fatis, Double differential distributions and attenuation in concrete for neutrons produced by 100–400 MeV protons on iron and tissue targets . . . 114 (1996) 70
Ahmed, M., see Faiz, M. . . . 114 (1996) 138
Al-Ohali, M.A., see Faiz, M. . . . 114 (1996) 138
Almeida, D.P. and C.F.L. Godinho, Integrated oscillator strengths for multi-ionization processes under the Bethe–Born formulation . . . 114 (1996) 337
An, Z., see He, F.Q. . . . 114 (1996) 213
Andrzejewski, J., see Kudryavtsev, Yu. . . . 114 (1996) 350
Aoki, Y., N.T. My, S. Yamamoto and H. Naramoto, Luminescence of sapphire and ruby induced by He and Ar ion irradiation . . . 114 (1996) 276
Asano, T., see Fukuda, K. . . . 114 (1996) 379

Bae, Y.K., R.J. Beuhler, Y.Y. Chu, G. Friedlander, Y. Xu and L. Friedman, Detection of accelerated large water cluster ions and electrosprayed biomolecules with passivated solid state detectors . . . 114 (1996) 185
Bai, X.D., D.H. Zhu and B.X. Liu, Anodic and air oxidation of niobium studied by ion beam analysis with implanted Xe marker . . . 114 (1996) 64
Balogun, F.A., N.M. Spyrou and C.A. Adesanmi, Neutron induced gamma-ray emission tomography . . . 114 (1996) 387
Bandhu, H.K., S. Puri, J.S. Shahi, D. Mehta, M.L. Garg, N. Singh, P.C. Mangal, C.R. Suri, E. Swietlicki and P.N. Trehan, An evaluation of the sources of air pollution in the city of Chandigarh, India: A study using EDXRF technique . . . 114 (1996) 341
Bärring, O., Detector adapted predictions of dE/dx distributions used for particle identification using the relativistic rise . . . 114 (1996) 1
Baschirotto, A., R. Castello, A. Gola, C. Onado, G. Pessina, P.G. Rancoita, M. Redaelli and A. Seidman, Radiation damage study of a fast bipolar monolithic charge sensitive preamplifier . . . 114 (1996) 327
Beuhler, R.J., see Bae, Y.K. . . . 114 (1996) 185
Bhagwat, A., see Patil, S.I. . . . 114 (1996) 42
Bhatti, S.S., see Khanna, A. . . . 114 (1996) 217
Biagtan, E., E. Goldberg, R. Stephens, E. Valeroso and J. Harmon, Gamma radiation dose rate effects on a polymer scintillator containing a large Stokes shift dye, 3-hydroxyflavone . . . 114 (1996) 88
Biagtan, E., E. Goldberg, R. Stephens and J. Harmon, ESR analysis of gamma radiation dose rate effects on scintillator light output . . . 114 (1996) 302
Białoskórski, J., see Piekoszewski, J. . . . 114 (1996) 263
Bijnens, N., see Kudryavtsev, Yu. . . . 114 (1996) 350
Bimbot, R., see Golovchenko, A.N. . . . 114 (1996) 221
Biswas, S.K., see Khaliquzzaman, M. . . . 114 (1996) 332
Blann, M., see Schiekel, Th. . . . 114 (1996) 91
Bogdanović, I., see Fazinić, S. . . . 114 (1996) 232
Borowski, M. and A. Traverse, High fluence implantation of Cu, Fe and Ti in AlN: depth profiling by RBS and RNRA . . . 114 (1996) 269
Boyd, K.J., see Bykov, V. . . . 114 (1996) 371
Breese, M.B.H., Multiple beam ion channeling patterns . . . 114 (1996) 252
Brisard, F., see Costantini, J.M. . . . 114 (1996) 408
Brodkorb, W., see Machalett, F. . . . 114 (1996) 34
Budnar, M., see Török, I. . . . 114 (1996) 9
Bukow, H.H., see Adamczewski, J. . . . 114 (1996) 172
Bykov, V., C. Kim, M.M. Sung, K.J. Boyd, S.S. Todorov and J.W. Rabalais, Scattering and recoiling imaging code (SARIC) . . . 114 (1996) 371

0168-583X/96/$15.00 Copyright © 1996 Elsevier Science B.V. All rights reserved

Cai, X., X.M. Chen, Z.Y. Shen, Z.Y. Liu, X.W. Ma, H.P. Liu and M.D. Hou, The ionization of helium by 1.5–7.5 MeV partially stripped C^{q+} ions . . . 114 (1996) 208
Campbell, J.L., see Török, I. . . . 114 (1996) 9
Campbell, J.L., see Papp, T. . . . 114 (1996) 225
Castello, R., see Baschirotto, A. . . . 114 (1996) 327
Chan, C., see Qin, S. . . . 114 (1996) 288
Chen, X.M., see Cai, X. . . . 114 (1996) 208
Chu, Y.Y., see Bae, Y.K. . . . 114 (1996) 185
Clapier, F., see Golovchenko, A.N. . . . 114 (1996) 221
Costantini, J.M., F. Brisard, A. Meftah, M. Toulemonde and F. Studer, Erratum to: "Damage of M-type baryum hexaferrites induced by GeV-heavy ion irradiations" [Nucl. Instr. and Meth. B 106 (1995) 567–572] . . . 114 (1996) 408
Croitoru, N., P.G. Rancoita, M. Rattaggi, G. Rossi and A. Seidman, Electrical conduction at low temperatures in high energy silicon detectors before and after irradiation with neutrons . . . 114 (1996) 120

Dittrich-Hannen, B., see Schiekel, Th. . . . 114 (1996) 91
Dutkiewicz, E.M., see Kwiatek, W.M. . . . 114 (1996) 345
Dzhemilev, N.Kh., A.M. Goldenberg, I.V. Veriovkin and S.V. Verkhoturov, Fragmentation of cluster ions in SIMS: cluster distributions over lifetime, excitation energy and kinetic energy release . . . 114 (1996) 245

Edge, A.C. and M.N. Monce, Digital imaging of atomic collisions . . . 114 (1996) 191
Eick, T., see Machalett, F. . . . 114 (1996) 34
Erlandsson, B., see Wiebert, A. . . . 114 (1996) 15

Faiz, M., M. Ahmed and M.A. Al-Ohali, Micro-PIXE analysis of a single crystal of $Y_1Ba_2Cu_3O_{7-\delta}$ superconductor . 114 (1996) 138
Fassò, A., see Agosteo, S. . . . 114 (1996) 70
Fazinić, S., T. Tadić, I. Bogdanović, M. Jakšić, I. Orlić and V. Valković, K-shell ionization of V, Cr, Mn, Fe, Co, Ni and Cu by 5–12 MeV carbon ions . . . 114 (1996) 232
Ferrari, A., see Agosteo, S. . . . 114 (1996) 70
Filges, D., see Schiekel, Th. . . . 114 (1996) 91
Fink, D., M. Müller, R. Klett, V. Hnatowicz, J. Vacik and C. Mathis, Accelerator-based fullerene depth profiling . . . 114 (1996) 394
Fink, D., see Hnatowicz, V. . . . 114 (1996) 81
Firoz Hasan, S.M., see Khaliquzzaman, M. . . . 114 (1996) 332
Franchoo, S., see Kudryavtsev, Yu. . . . 114 (1996) 350
Freeman, R., see Golovchenko, A.N. . . . 114 (1996) 221
Friedlander, G., see Bae, Y.K. . . . 114 (1996) 185
Friedman, L., see Bae, Y.K. . . . 114 (1996) 185
Fujihana, T., see Iwaki, M. . . . 114 (1996) 397
Fukuda, K., J. Ohkuma, T. Asano and Y. Satoh, Performance of a Ge-BGO Compton-suppression spectrometer and its application to photon activation analysis . . . 114 (1996) 379

Gaiduk, P.I., see Zentgraf, A. . . . 114 (1996) 46
Garg, M.L., see Bandhu, H.K. . . . 114 (1996) 341
Gartenmann, P., R. Golser, P. Haas, W. Kutschera, M. Suter, H.-A. Synal, M.J.M. Wagner and E. Wild, Absolute measurement of ^{126}Sn radionuclide concentration with AMS . . . 114 (1996) 125
Gartenmann, P., see Haas, P. . . . 114 (1996) 131
Gärtner, K., see Zentgraf, A. . . . 114 (1996) 46
Gentens, J., see Kudryavtsev, Yu. . . . 114 (1996) 350
Gloris, M., see Schiekel, Th. . . . 114 (1996) 91
Godinho, C.F.L., see Almeida, D.P. . . . 114 (1996) 337
Gola, A., see Baschirotto, A. . . . 114 (1996) 327
Goldberg, E., see Biagtan, E. . . . 114 (1996) 88
Goldberg, E., see Biagtan, E. . . . 114 (1996) 302
Goldenberg, A.M., see Dzhemilev, N.Kh. . . . 114 (1996) 245
Golovchenko, A.N., J. Skvarč, N. Pauwels, S.P. Tretyakova, R. Ilić, R. Bimbot, F. Clapier and R. Freeman, Characterization of a 292 MeV/n ^{19}F beam after passage through a thick Plexiglas target . . . 114 (1996) 221
Golser, R., see Gartenmann, P. . . . 114 (1996) 125
Golser, R., see Haas, P. . . . 114 (1996) 131
Grabias, A., see Piekoszewski, J. . . . 114 (1996) 263

Haas, P., P. Gartenmann, R. Golser, W. Kutschera, M. Suter, H.-A. Synal, M.J.M. Wagner, E. Wild and G. Winkler, A new half-life measurement of the long-lived fission product ^{126}Sn 114 (1996) 131
Haas, P., see Gartenmann, P. 114 (1996) 125
Harmon, J., see Biagtan, E. 114 (1996) 88
Harmon, J., see Biagtan, E. 114 (1996) 302
Hasegawa, M., see Kobayashi, N. 114 (1996) 403
Hayashi, N., see Kobayashi, N. 114 (1996) 403
He, F.Q., X.G. Long, X.F. Peng, Z.M. Luo and Z. An, K-shell ionization of molybdenum by electron bombardment . 114 (1996) 213
Heinz, E., see Machalett, F. 114 (1996) 34
Hellborg, R., see Wiebert, A. 114 (1996) 15
Henderson, D.O., see Pan, Z. 114 (1996) 281
Herpers, U., see Schiekel, Th. 114 (1996) 91
Hirano, K., see Iida, A. 114 (1996) 149
Hnatowicz, V., J. Vacík, V. Švorčík, V. Rybka, V. Popok, O. Jankovskij, D. Fink and R. Klett, Iodine diffusion and trapping in polyethylene implanted with 150 keV F^+ and As^+ ions to different fluences 114 (1996) 81
Hnatowicz, V., see Fink, D. 114 (1996) 394
Hou, M.D., see Cai, X. 114 (1996) 208
Hübner, U., see Machalett, F. 114 (1996) 34
Huyse, M., see Kudryavtsev, Yu. 114 (1996) 350

Iida, A. and K. Hirano, Kirkpatrick–Baez optics for a sub-μm synchrotron X-ray microbeam and its applications to X-ray analysis 114 (1996) 149
Ikeda, N., see Jeong, S.C. 114 (1996) 154
Ilić, R., see Golovchenko, A.N. 114 (1996) 221
Iwaki, M., A. Nakao, M. Kaibara, H. Sasabe, S. Kaneko, H. Nakajima, Y. Suzuki, M. Kusakabe and T. Fujihana, Erratum to: "Ion bombardment into inner wall surfaces of tubes and their biomedical applications" [Nucl. Instr. and Meth. B 106 (1995) 618] 114 (1996) 397

Jakšić, M., see Fazinić, S. 114 (1996) 232
Jankovskij, O., see Hnatowicz, V. 114 (1996) 81
Jeong, S.C., M. Oyaizu, H. Kawakami, Y. Shirakabe, N. Ikeda and T. Nomura, Beam-bunching in an ECR ion source by the pulsed gating-potential method 114 (1996) 154
Jin, O. and B.X. Liu, Unusual alloying behavior observed in the immiscible Ag–Mo and Ag–Nb systems under ion irradiation 114 (1996) 56
Jin, Z., see Qin, S. 114 (1996) 288

Kaibara, M., see Iwaki, M. 114 (1996) 397
Kaneko, S., see Iwaki, M. 114 (1996) 397
Kawai, J., see Török, I. 114 (1996) 9
Kawakami, H., see Jeong, S.C. 114 (1996) 154
Kawrakow, I., Electron transport: lateral and longitudinal correlation algorithm 114 (1996) 307
Khaliquzzaman, M., S.K. Biswas, A.H. Khan, S.M. Firoz Hasan, M.A. Subhan and L. Quadir, Study of the composition of vacuum deposited thin films of $CuInSe_2$ using PIXE and their properties 114 (1996) 332
Khan, A.H., see Khaliquzzaman, M. 114 (1996) 332
Khanna, A., S.S. Bhatti, K.J. Singh and K.S. Thind, Gamma-ray attenuation coefficients in some heavy metal oxide borate glasses at 662 keV 114 (1996) 217
Kim, C., see Bykov, V. 114 (1996) 371
Klett, R., see Hnatowicz, V. 114 (1996) 81
Klett, R., see Fink, D. 114 (1996) 394
Kobayashi, N., M. Hasegawa, N. Hayashi, H. Tanoue, H. Shibata and Y. Makita, Erratum to: "Ion-beam-induced epitaxial crystallisation of metastable $Si_{1-x-y}Ge_xC_y$ layers fabricated by Ge and C ion implantation" [Nucl. Instr. and Meth. B 106 (1995) 289] 114 (1996) 403
Kopcewicz, M., see Piekoszewski, J. 114 (1996) 263
Kubik, P.W., see Schiekel, Th. 114 (1996) 91
Kudryavtsev, Yu., J. Andrzejewski, N. Bijnens, S. Franchoo, J. Gentens, M. Huyse, A. Piechaczek, J. Szerypo, I. Reusen, P. Van Duppen, P. Van Den Bergh, L. Vermeeren, J. Wauters and A. Wöhr, Beams of short lived nuclei produced by selective laser ionization in a gas cell 114 (1996) 350
Kunashenko, Yu.P. and Yu.L. Pivovarov, Brilliance of coherent peaks for type-B photoproduction of electron–positron pairs in a crystal 114 (1996) 237
Kupila-Rantala, T., Sensitive and high precision PIXE analysis of liquids 114 (1996) 143

Kusakabe, M., see Iwaki, M. . . . 114 (1996) 397
Kutschera, W., see Gartenmann, P. . . . 114 (1996) 125
Kutschera, W., see Haas, P. . . . 114 (1996) 131
Kwiatek, W.M., J. Lekki, E.M. Dutkiewicz and C. Paluszkiewicz, Importance of matrix changes in PIXE elemental analysis . . . 114 (1996) 345

Lange, H.-J., see Schiekel, Th. . . . 114 (1996) 91
Langner, J., see Piekoszewski, J. . . . 114 (1996) 263
Lanke, U., see Patil, S.I. . . . 114 (1996) 42
Leblanc, L. and G.G. Ross, Measurements and Monte Carlo calculations of hydrogen and deuterium depth distributions into silicon carbide implanted in the energy range from 0.25 to 1.75 keV . . . 114 (1996) 203
Lekki, J., see Kwiatek, W.M. . . . 114 (1996) 345
Leya, I., see Schiekel, Th. . . . 114 (1996) 91
Li, M.-Y., see Zheng, L.-P. . . . 114 (1996) 28
Liu, B.X., see Jin, O. . . . 114 (1996) 56
Liu, B.X., see Bai, X.D. . . . 114 (1996) 64
Liu, H.P., see Cai, X. . . . 114 (1996) 208
Liu, Z.Y., see Cai, X. . . . 114 (1996) 208
Long, X.G., see He, F.Q. . . . 114 (1996) 213
Luo, Z.M., see He, F.Q. . . . 114 (1996) 213

Ma, X.W., see Cai, X. . . . 114 (1996) 208
Machalett, F., P. Seidel, E. Heinz, E. Steinbeiß, T. Eick, K. Steenbeck, W. Brodkorb and U. Hübner, Submicron ion beam modification of high-T_c superconducting bridges . . . 114 (1996) 34
Magruder, III, R.H., see Pan, Z. . . . 114 (1996) 281
Makita, Y., see Kobayashi, N. . . . 114 (1996) 403
Mangal, P.C., see Bandhu, H.K. . . . 114 (1996) 341
Mathis, C., see Fink, D. . . . 114 (1996) 394
Mattei, G. and A.M. Mazzone, Multiple cascades regime in fcc metals. Molecular dynamics simulations and calculated HREM imaging . . . 114 (1996) 293
Mazzone, A.M., see Mattei, G. . . . 114 (1996) 293
Meftah, A., see Costantini, J.M. . . . 114 (1996) 408
Mehta, D., see Bandhu, H.K. . . . 114 (1996) 341
Meijer, J., see Adamczewski, J. . . . 114 (1996) 172
Michel, R., see Schiekel, Th. . . . 114 (1996) 91
Monce, M.N., see Edge, A.C. . . . 114 (1996) 191
Morgan, S.H., see Pan, Z. . . . 114 (1996) 281
Mühleisen, A., see Török, I. . . . 114 (1996) 9
Müller, M., see Fink, D. . . . 114 (1996) 394
My, N.T., see Aoki, Y. . . . 114 (1996) 276

Nakajima, H., see Iwaki, M. . . . 114 (1996) 397
Nakao, A., see Iwaki, M. . . . 114 (1996) 397
Naramoto, H., see Aoki, Y. . . . 114 (1996) 276
Nomura, T., see Jeong, S.C. . . . 114 (1996) 154
Nowicki, L., see Piekoszewski, J. . . . 114 (1996) 263

Ogale, S.B., see Patil, S.I. . . . 114 (1996) 42
Ohkuma, J., see Fukuda, K. . . . 114 (1996) 379
Onado, C., see Baschirotto, A. . . . 114 (1996) 327
Orlić, I., see Fazinić, S. . . . 114 (1996) 232
Oyaizu, M., see Jeong, S.C. . . . 114 (1996) 154

Pálinkás, J., see Török, I. . . . 114 (1996) 9
Pálinkás, J., see Víkor, L. . . . 114 (1996) 164
Paluszkiewicz, C., see Kwiatek, W.M. . . . 114 (1996) 345
Pan, Z., S.H. Morgan, D.O. Henderson, R.H. Magruder, III and R.A. Zuhr, Optical and infrared studies of Ti, Au, O ion implanted fused silica . . . 114 (1996) 281
Papp, T. and J.L. Campbell, On the accuracy of the L-subshell ionization cross sections for proton impact. I. Spectrum fitting . . . 114 (1996) 225
Papp, T., see Török, I. . . . 114 (1996) 9

Patil, S.I., R. Shreekala, U. Lanke, A. Bhagwat and S.B. Ogale, Low dose Ar^+ ion implantation effects on the properties of oriented $La_{0.75}Ca_{0.25}MnO_3$ films 114 (1996) 42
Pauwels, N., see Golovchenko, A.N. 114 (1996) 221
Penent, F., see Víkor, L. 114 (1996) 164
Peng, X.F., see He, F.Q. 114 (1996) 213
Pessina, G., see Baschirotto, A. 114 (1996) 327
Piechaczek, A., see Kudryavtsev, Yu. 114 (1996) 350
Piekoszewski, J., L. Waliś, J. Langner, Z. Werner, J. Białoskórski, L. Nowicki, M. Kopcewicz and A. Grabias, Alloying of austenitic stainless steel with nitrogen using high-intensity pulsed beams of nitrogen plasma 114 (1996) 263
Pivovarov, Yu.L., see Kunashenko, Yu.P. 114 (1996) 237
Popok, V., see Hnatowicz, V. 114 (1996) 81
Puri, S., see Bandhu, H.K. 114 (1996) 341

Qin, S., Z. Jin and C. Chan, An equivalent circuit and its effective impedance of a plasma load during a high voltage pulse 114 (1996) 288
Quadir, L., see Khaliquzzaman, M. 114 (1996) 332

Rabalais, J.W., see Bykov, V. 114 (1996) 371
Rancoita, P.G., see Croitoru, N. 114 (1996) 120
Rancoita, P.G., see Baschirotto, A. 114 (1996) 327
Rattaggi, M., see Croitoru, N. 114 (1996) 120
Redaelli, M., see Baschirotto, A. 114 (1996) 327
Rekveldt, M.T., Novel SANS instrument using Neutron Spin Echo 114 (1996) 366
Reusen, I., see Kudryavtsev, Yu. 114 (1996) 350
Rolfs, C., see Adamczewski, J. 114 (1996) 172
Ross, G.G., see Leblanc, L. 114 (1996) 203
Rossi, G., see Croitoru, N. 114 (1996) 120
Rybka, V., see Hnatowicz, V. 114 (1996) 81

Sala, P.R., see Agosteo, S. 114 (1996) 70
Sarkadi, L., see Víkor, L. 114 (1996) 164
Sasabe, H., see Iwaki, M. 114 (1996) 397
Satoh, Y., see Fukuda, K. 114 (1996) 379
Schiekel, Th., F. Sudbrock, U. Herpers, M. Gloris, H.-J. Lange, I. Leya, R. Michel, B. Dittrich-Hannen, H.-A. Synal, M. Suter, P.W. Kubik, M. Blann and D. Filges, Nuclide production by proton-induced reactions on elements ($6 \leq Z \leq 29$) in the energy range from 200 MeV to 400 MeV 114 (1996) 91
Schippel, S., see Zentgraf, A. 114 (1996) 46
Seidel, P., see Machalett, F. 114 (1996) 34
Seidman, A., see Croitoru, N. 114 (1996) 120
Seidman, A., see Baschirotto, A. 114 (1996) 327
Shahi, J.S., see Bandhu, H.K. 114 (1996) 341
Shapiro, M.H., see Timoner, S.J. 114 (1996) 20
Shen, Z.Y., see Cai, X. 114 (1996) 208
Shibata, H., see Kobayashi, N. 114 (1996) 403
Shirakabe, Y., see Jeong, S.C. 114 (1996) 154
Shreekala, R., see Patil, S.I. 114 (1996) 42
Silari, M., see Agosteo, S. 114 (1996) 70
Silenko, A.J., Spin rotation of charged particles in crystals caused by parity nonconserving interaction 114 (1996) 259
Singh, K.J., see Khanna, A. 114 (1996) 217
Singh, N., see Bandhu, H.K. 114 (1996) 341
Skog, G., see Wiebert, A. 114 (1996) 15
Skvarč, J., see Golovchenko, A.N. 114 (1996) 221
Spyrou, N.M., see Balogun, F.A. 114 (1996) 387
Steenbeck, K., see Machalett, F. 114 (1996) 34
Steinbeiß, E., see Machalett, F. 114 (1996) 34
Stenström, K., see Wiebert, A. 114 (1996) 15
Stephan, A., see Adamczewski, J. 114 (1996) 172
Stephens, R., see Biagtan, E. 114 (1996) 88
Stephens, R., see Biagtan, E. 114 (1996) 302
Studer, F., see Costantini, J.M. 114 (1996) 408
Subhan, M.A., see Khaliquzzaman, M. 114 (1996) 332

Sudbrock, F., see Schiekel, Th. 114 (1996) 91
Sung, M.M., see Bykov, V. 114 (1996) 371
Suri, C.R., see Bandhu, H.K. 114 (1996) 341
Suter, M., see Schiekel, Th. 114 (1996) 91
Suter, M., see Gartenmann, P. 114 (1996) 125
Suter, M., see Haas, P. 114 (1996) 131
Suzuki, Y., see Iwaki, M. 114 (1996) 397
Švorčík, V., see Hnatowicz, V. 114 (1996) 81
Swietlicki, E., see Bandhu, H.K. 114 (1996) 341
Synal, H.-A., see Schiekel, Th. 114 (1996) 91
Synal, H.-A., see Gartenmann, P. 114 (1996) 125
Synal, H.-A., see Haas, P. 114 (1996) 131
Szerypo, J., see Kudryavtsev, Yu. 114 (1996) 350

Tabarelli de Fatis, P., see Agosteo, S. 114 (1996) 70
Tadić, T., see Fazinić, S. 114 (1996) 232
Tanoue, H., see Kobayashi, N. 114 (1996) 403
Thind, K.S., see Khanna, A. 114 (1996) 217
Timoner, S.J., M.H. Shapiro and T.A. Tombrello, Molecular dynamics simulations of inner shell electronic energy losses in cluster-surface collisions 114 (1996) 20
Todorov, S.S., see Bykov, V. 114 (1996) 371
Tőkési, K., see Víkor, L. 114 (1996) 164
Tombrello, T.A., see Timoner, S.J. 114 (1996) 20
Török, I., T. Papp, J. Pálinkás, M. Budnar, A. Mühleisen, J. Kawai and J.L. Campbell, Relative intensity of the $K\beta_5$ X-ray line 114 (1996) 9
Toulemonde, M., see Costantini, J.M. 114 (1996) 408
Traverse, A., see Borowski, M. 114 (1996) 269
Trehan, P.N., see Bandhu, H.K. 114 (1996) 341
Tretyakova, S.P., see Golovchenko, A.N. 114 (1996) 221

Vacík, J., see Hnatowicz, V. 114 (1996) 81
Vacik, J., see Fink, D. 114 (1996) 394
Valeroso, E., see Biagtan, E. 114 (1996) 88
Valković, V., see Fazinić, S. 114 (1996) 232
Van Den Bergh, P., see Kudryavtsev, Yu. 114 (1996) 350
Van Duppen, P., see Kudryavtsev, Yu. 114 (1996) 350
Varga, D., see Víkor, L. 114 (1996) 164
Veriovkin, I.V., see Dzhemilev, N.Kh. 114 (1996) 245
Verkhoturov, S.V., see Dzhemilev, N.Kh. 114 (1996) 245
Vermeeren, L., see Kudryavtsev, Yu. 114 (1996) 350
Víkor, L., L. Sarkadi, K. Tőkési, D. Varga, F. Penent and J. Pálinkás, An electrostatic lens for zero-degree electron spectroscopy 114 (1996) 164

Wagner, M.J.M., see Gartenmann, P. 114 (1996) 125
Wagner, M.J.M., see Haas, P. 114 (1996) 131
Waliś, L., see Piekoszewski, J. 114 (1996) 263
Wauters, J., see Kudryavtsev, Yu. 114 (1996) 350
Werner, Z., see Piekoszewski, J. 114 (1996) 263
Wiebert, A., B. Erlandsson, R. Hellborg, K. Stenström and G. Skog, The charge state distributions of 0.5–2.9 MeV Be, Al, Cl, Ti and Ni ions measured after carbon foil stripping 114 (1996) 15
Wild, E., see Gartenmann, P. 114 (1996) 125
Wild, E., see Haas, P. 114 (1996) 131
Winkler, G., see Haas, P. 114 (1996) 131
Wöhr, A., see Kudryavtsev, Yu. 114 (1996) 350

Xu, Y., see Bae, Y.K. 114 (1996) 185

Yamamoto, S., see Aoki, Y. 114 (1996) 276

Zentgraf, A., K. Gärtner, S. Schippel and P.I. Gaiduk, Influence of damage on the formation of $CoSi_2$ by Co implantation 114 (1996) 46
Zheng, L.-P. and M.-Y. Li, Simulation of the isotopic angular pattern during the ^{92}Mo–^{100}Mo sputtering 114 (1996) 28
Zhu, D.H., see Bai, X.D. 114 (1996) 64
Zuhr, R.A., see Pan, Z. 114 (1996) 281

ELSEVIER

Nuclear Instruments and Methods in Physics Research B 114 (1996) 419–421

NIM B
Beam Interactions with Materials & Atoms

Subject index

Basic Data for Materials Modification and Analysis

Detector adapted predictions of dE/dx distributions used for particle identification using the relativistic rise, O. Bärring 114 (1996) 1
Relative intensity of the $K\beta_5$ X-ray line, I. Török, T. Papp, J. Pálinkás, M. Budnar, A. Mühleisen, J. Kawai and J.L. Campbell 114 (1996) 9
The charge state distributions of 0.5–2.9 MeV Be, Al, Cl, Ti and Ni ions measured after carbon foil stripping, A. Wiebert, B. Erlandsson, R. Hellborg, K. Stenström and G. Skog 114 (1996) 15
Measurements and Monte Carlo calculations of hydrogen and deuterium depth distributions into silicon carbide implanted in the energy range from 0.25 to 1.75 keV, L. Leblanc and G.G. Ross 114 (1996) 203
The ionization of helium by 1.5–7.5 MeV partially stripped C^{q+} ions, X. Cai, X.M. Chen, Z.Y. Shen, Z.Y. Liu, X.W. Ma, H.P. Liu and M.D. Hou 114 (1996) 208
K-shell ionization of molybdenum by electron bombardment, F.Q. He, X.G. Long, X.F. Peng, Z.M. Luo and Z. An . . 114 (1996) 213
Gamma-ray attenuation coefficients in some heavy metal oxide borate glasses at 662 keV, A. Khanna, S.S. Bhatti, K.J. Singh and K.S. Thind 114 (1996) 217
Characterization of a 292 MeV/n ^{19}F beam after passage through a thick Plexiglas target, A.N. Golovchenko, J. Skvarč, N. Pauwels, S.P. Tretyakova, R. Ilić, R. Bimbot, F. Clapier and R. Freeman 114 (1996) 221
On the accuracy of the L-subshell ionization cross sections for proton impact. I. Spectrum fitting, T. Papp and J.L. Campbell 114 (1996) 225
K-shell ionization of V, Cr, Mn, Fe, Co, Ni and Cu by 5–12 MeV carbon ions, S. Fazinić, T. Tadić, I. Bogdanović, M. Jakšić, I. Orlić and V. Valković 114 (1996) 232

Atomic Collisions in Solids

Molecular dynamics simulations of inner shell electronic energy losses in cluster-surface collisions, S.J. Timoner, M.H. Shapiro and T.A. Tombrello 114 (1996) 20
Simulation of the isotopic angular pattern during the ^{92}Mo–^{100}Mo sputtering, L.-P. Zheng and M.-Y. Li 114 (1996) 28
Brilliance of coherent peaks for type-B photoproduction of electron–positron pairs in a crystal, Yu.P. Kunashenko and Yu.L. Pivovarov 114 (1996) 237
Fragmentation of cluster ions in SIMS: cluster distributions over lifetime, excitation energy and kinetic energy release, N.Kh. Dzhemilev, A.M. Goldenberg, I.V. Veriovkin and S.V. Verkhoturov 114 (1996) 245
Multiple beam ion channeling patterns, M.B.H. Breese 114 (1996) 252
Spin rotation of charged particles in crystals caused by parity nonconserving interaction, A.J. Silenko 114 (1996) 259

Ion Beam Modification of Materials

Submicron ion beam modification of high-T_c superconducting bridges, F. Machalett, P. Seidel, E. Heinz, E. Steinbeiß, T. Eick, K. Steenbeck, W. Brodkorb and U. Hübner 114 (1996) 34
Low dose Ar^+ ion implantation effects on the properties of oriented $La_{0.75}$, $Ca_{0.25}$, MnO_3 films, S.I. Patil, R. Shreekala, U. Lanke, A. Bhagwat and S.B. Ogale 114 (1996) 42
Influence of damage on the formation of $CoSi_2$ by Co implantation, A. Zentgraf, K. Gärtner, S. Schippel and P.I. Gaiduk 114 (1996) 46
Unusual alloying behavior observed in the immiscible Ag–Mo and Ag–Nb systems under ion irradiation, O. Jin and B.X. Liu 114 (1996) 56
Anodic and air oxidation of niobium studied by ion beam analysis with implanted Xe marker, X.D. Bai, D.H. Zhu and B.X. Liu 114 (1996) 64
Alloying of austenitic stainless steel with nitrogen using high-intensity pulsed beams of nitrogen plasma, J. Piekoszewski, L. Waliś, J. Langner, Z. Werner, J. Białoskórski, L. Nowicki, M. Kopcewicz and A. Grabias 114 (1996) 263

0168-583X/96/$15.00 Copyright © 1996 Elsevier Science B.V. All rights reserved

High fluence implantation of Cu, Fe and Ti in AlN: depth profiling by RBS and RNRA, M. Borowski and A. Traverse 114 (1996) 269
Luminescence of sapphire and ruby induced by He and Ar ion irradiation, Y. Aoki, N.T. My, S. Yamamoto and H. Naramoto 114 (1996) 276
Optical and infrared studies of Ti, Au, O ion implanted fused silica, Z. Pan, S.H. Morgan, D.O. Henderson, R.H. Magruder, III and R.A. Zuhr. 114 (1996) 281
An equivalent circuit and its effective impedance of a plasma load during a high voltage pulse, S. Qin, Z. Jin and C. Chan 114 (1996) 288

Effects of Radiation

Double differential distributions and attenuation in concrete for neutrons produced by 100–400 MeV protons on iron and tissue targets, S. Agosteo, A. Fassò, A. Ferrari, P.R. Sala, M. Silari and P. Tabarelli de Fatis 114 (1996) 70
Iodine diffusion and trapping in polyethylene implanted with 150 keV F^+ and As^+ ions to different fluences, V. Hnatowicz, J. Vacík, V. Švorčík, V. Rybka, V. Popok, O. Jankovskij, D. Fink and R. Klett 114 (1996) 81
Gamma radiation dose rate effects on a polymer scintillator containing a large Stokes shift dye, 3-hydroxyflavone, E. Biagtan, E. Goldberg, R. Stephens, E. Valeroso and J. Harmon 114 (1996) 88
Nuclide production by proton-induced reactions on elements ($6 \leq Z \leq 29$) in the energy range from 200 MeV to 400 MeV, Th. Schiekel, F. Sudbrock, U. Herpers, M. Gloris, H.-J. Lange, I. Leya, R. Michel, B. Dittrich-Hannen, H.-A. Synal, M. Suter, P.W. Kubik, M. Blann and D. Filges 114 (1996) 91
Electrical conduction at low temperatures in high energy silicon detectors before and after irradiation with neutrons, N. Croitoru, P.G. Rancoita, M. Rattaggi, G. Rossi and A. Seidman 114 (1996) 120
Multiple cascades regime in fcc metals. Molecular dynamics simulations and calculated HREM imaging, G. Mattei and A.M. Mazzone 114 (1996) 293
ESR analysis of gamma radiation dose rate effects on scintillator light output, E. Biagtan, E. Goldberg, R. Stephens and J. Harmon 114 (1996) 302
Electron transport: lateral and longitudinal correlation algorithm, I. Kawrakow 114 (1996) 307
Radiation damage study of a fast bipolar monolithic charge sensitive preamplifier, A. Baschirotto, R. Castello, A. Gola, C. Onado, G. Pessina, P.G. Rancoita, M. Redaelli and A. Seidman 114 (1996) 327

Analysis of Materials

Absolute measurement of ^{126}Sn radionuclide concentration with AMS, P. Gartenmann, R. Golser, P. Haas, W. Kutschera, M. Suter, H.-A. Synal, M.J.M. Wagner and E. Wild 114 (1996) 125
A new half-life measurement of the long-lived fission product ^{126}Sn, P. Haas, P. Gartenmann, R. Golser, W. Kutschera, M. Suter, H.-A. Synal, M.J.M. Wagner, E. Wild and G. Winkler 114 (1996) 131
Micro-PIXE analysis of a single crystal of $Y_1Ba_2Cu_3O_{7-\delta}$ superconductor, M. Faiz, M. Ahmed and M.A. Al-Ohali . . 114 (1996) 138
Sensitive and high precision PIXE analysis of liquids, T. Kupila-Rantala 114 (1996) 143
Kirkpatrick–Baez optics for a sub-μm synchrotron X-ray microbeam and its applications to X-ray analysis, A. Iida and K. Hirano 114 (1996) 149
Study of the composition of vacuum deposited thin films of $CuInSe_2$ using PIXE and their properties, M. Khaliquzzaman, S.K. Biswas, A.H. Khan, S.M. Firoz Hasan, M.A. Subhan and L. Quadir 114 (1996) 332
Integrated oscillator strengths for multi-ionization processes under the Bethe–Born formulation, D.P. Almeida and C.F.L. Godinho. 114 (1996) 337
An evaluation of the sources of air pollution in the city of Chandigarh, India: A study using EDXRF technique, H.K. Bandhu, S. Puri, J.S. Shahi, D. Mehta, M.L. Garg, N. Singh, P.C. Mangal, C.R. Suri, E. Swietlicki and P.N. Trehan. 114 (1996) 341
Importance of matrix changes in PIXE elemental analysis, W.M. Kwiatek, J. Lekki, E.M. Dutkiewicz and C. Paluszkiewicz 114 (1996) 345

Ion Sources and Beam Optics

Beam-bunching in an ECR ion source by the pulsed gating-potential method, S.C. Jeong, M. Oyaizu, H. Kawakami, Y. Shirakabe, N. Ikeda and T. Nomura 114 (1996) 154
An electrostatic lens for zero-degree electron spectroscopy, L. Víkor, L. Sarkadi, K. Tőkési, D. Varga, F. Penent and J. Pálinkás 114 (1996) 164
Beams of short lived nuclei produced by selective laser ionization in a gas cell, Yu. Kudryavtsev, J. Andrzejewski, N. Bijnens, S. Franchoo, J. Gentens, M. Huyse, A. Piechaczek, J. Szerypo, I. Reusen, P. Van Duppen, P. Van Den Bergh, L. Vermeeren, J. Wauters and A. Wöhr. 114 (1996) 350

Experimental Methods and Equipment

Optimization of material and shape for nuclear microprobe apertures, J. Adamczewski, J. Meijer, A. Stephan, H.H. Bukow and C. Rolfs 114 (1996) 172
Detection of accelerated large water cluster ions and electrosprayed biomolecules with passivated solid state detectors, Y.K. Bae, R.J. Beuhler, Y.Y. Chu, G. Friedlander, Y. Xu and L. Friedman 114 (1996) 185
Digital imaging of atomic collisions, A.C. Edge and M.N. Monce 114 (1996) 191
Novel SANS instrument using Neutron Spin Echo, M.T. Rekveldt 114 (1996) 366
Scattering and recoiling imaging code (SARIC), V. Bykov, C. Kim, M.M. Sung, K.J. Boyd, S.S. Todorov and J.W. Rabalais. 114 (1996) 371
Performance of a Ge-BGO Compton-suppression spectrometer and its application to photon activation analysis, K. Fukuda, J. Ohkuma, T. Asano and Y. Satoh. 114 (1996) 379
Neutron induced gamma-ray emission tomography, F.A. Balogun, N.M. Spyrou and C.A. Adesanmi 114 (1996) 387

Letter to the Editor

Accelerator-based fullerene depth profiling, D. Fink, M. Müller, R. Klett, V. Hnatowicz, J. Vacik and C. Mathis. . . . 114 (1996) 394

Errata

Erratum to: "Ion bombardment into inner wall surfaces of tubes and their biomedical applications" [Nucl. Instr. and Meth. B 106 (1995) 618], M. Iwaki, A. Nakao, M. Kaibara, H. Sasabe, S. Kaneko, H. Nakajima, Y. Suzuki, M. Kusakabe and T. Fujihana 114 (1996) 397
Erratum to: "Ion-beam-induced epitaxial crystallisation of metastable Si_{1-x-y}, Ge_xC_y layers fabricated by Ge and C ion implantation" [Nucl. Instr. and Meth. B 106 (1995) 289], N. Kobayashi, M. Hasegawa, N. Hayashi, H. Tanoue, H. Shibata and Y. Makita. 114 (1996) 403
Erratum to: "Damage of M-type baryum hexaferrites induced by GeV-heavy ion irradiations" [Nucl. Instr. and Meth. B 106 (1995) 567–572], J.M. Costantini, F. Brisard, A. Meftah, M. Toulemonde and F. Studer 114 (1996) 408